IL10

```
  1  AAACCACAAGACAGACTTGCAAAAGAAGGCATGCACAGCTCAGCACTGCTCTGTTGCCTGGTCCTCCTGACT
     TTTGGTGTTCTGTCTGAACGTTTTCTTCCGTACGTGTCGAGTCGTGACGAGACAACGGACCAGGAGGACTGA

 73  GGGGTGAGGGCCAGCCCAGGCCAGGGCACCCAGTCTGAGAACAGCTGCACCCACTTCCCAGGCAACCTGCCTA
     CCCCACTCCCGGTCGGGTCCGGTCCCGTGGGTCAGACTCTTGTCGACGTGGGTGAAGGGTCCGTTGGACGGAT

146  ACATGCTTCGAGATCTCCGAGATGCCTTCAGCAGAGTGAAGACTTTCTTTCAAATGAAGGATCAGCTGGACAAC
     TGTACGAAGCTCTAGAGGCTCTACGGAAGTCGTCTCACTTCTGAAAGAAAGTTTACTTCCTAGTCGACCTGTTG

220  TTGTTGTTAAAGGAGTCCTTGCTGGAGGACTTTAAGGGGTTACCTGGGTTGCCAAGCCTTGTCTGAGATG
     AACAACAATTTCCTCAGGAACGACCTCCTGAAATTCCCAATGGACCCAACGGTTCGGAACAGACTCTAC
```

COX2

```
  1  GTCCAGGAACTCCTCAGCAGCGCCTCCTTCAGCTCCACAGCCAGACGCCCTCAGACAGCAAAGCCTACCCCCG
     CAGGTCCTTGAGGAGTCGTCGCCGGAGGAAGTCGAGGTGTCGGTCTGCGGGAGTCTGTCGTTTCGGATGGGGGC

 74  CGCCGCGCCCTGCCCGCCGCTGCGATGCTCGCCCGCGCCCTGCTGCTGTGCGCGGTCCTGGCCGCTCAGCCATACA
     GCGGCGCGGGACGGGCGGCGACGCTACGAGCGGGCGCGGGACGACGACACGCGCCAGGACCGCGAGTCGGTATGT

149  GCAAATCCTTGCTGTTCCCACCCATGTCAAAACCGAGGTGTATGTATGAGTGTGGGATTTGACCAGTATAAGTGCG
     CGTTTAGGAACGACAAGGGTGGGTACAGTTTTGGCTCCACATACATACTCACACCCTAAACTGGTCATATTCACGC

225  ATTGTACCCGGACAGGATTCTATGGAGAAAACTGCTCAACACCGGAATTTTTTGACAAGAATAAAATTATTTC
     TAACATGGGCCTGTCCTAAGATACCTCTTTTGACGAGTTGTGGCCTTAAAAACTGTTCTTATTTTAATAAAG
```

YY1

```
  1  CGCCGAGACGAGCAGCGGCCGAGCGAGCGCGGGCGCGGGCGCACCGAGGCGAGGGAGGCGGGGAAGCCCCGCCGCCG
     GCGGCTCTGCTCGTCGCCGGCTCGCTCGCGCCCGCGCCCGCGTGGCTCCGCTCCCTCCGCCCCTTCGGGGCGGCGGC

 78  CCGCCCCGCCCGCCCCTTCCCCCGCCGCCCGCCCCCTCTCCCCCCGCCCGCTCGCCGCCTTCCTCCCTCTGCCTT
     GGCGGGGCGGGCGGGGAAGGGGGCGGCGGGCGGGGGAGAGGGGGGGCGGGCGAGCGGCGGAAGGAGGGAGACGGAA

153  CCTTCCCCACGGCCGGCCGCCTCCTCGCCCGCCCGCCCGCAGCCGAGGAGCCGAGGCCGCCGCGGCCGTGGCGGC
     GGAAGGGGTGCCGGCCGGCCGGAGGAGCGGGCGGGCGGGCGTCGGCTCCTCGGCTCCGGCGGCGCCGGCACCGCCG

228  GGAGCCCTCAGCCATGGCCTCGGGCGACACCCTCTACATCGCCACGGACGGCTCGGAGATGCCGGCCGAGATCGTGG
     CCTCGGGAGTCGGTACCGGAGCCCGCTGTGGGAGATGTAGCGGTGCCTGCCGAGCCTCTACGGCCGGCTCTAGCACC

305  AGCTGCACGAGATCGAGGTGGAGACCATCCCGGTGGAGACCATCGAGACCACAGTGGTGGGGCGAGGAGGAGG
     TCGACGTGCTCTAGCTCCACCTCTGGTAGGGCCACCTCTGGTAGCTCTGGTGTCACCACCCGCTCCTCCTCC
```

IRF2

```
  1  AACTGACGGGCTTTCATTTCCATTTCACACACCCTAGCAACACTTATACCTTGCGGAATTGTATTGGTAGC
     TTGACTGCCCGAAAGTAAAGGTAAAGTCTGTGGGATCGTTGTGAATATGGAACGCCTTAACCATAACCATCG

 72  GTGAAAAAAGCACACTGAGAGGGCACCATGCCGGTGGAAAAGGATGCCGCACCCCGTGGCTGGAGGAGCAGAT
     CACTTTTTTCGTGTGACTCTCCCGTGGTACGGCCACCTTTCCTACGCGTACGCGGGCACCGACCTCCTCGTCTA

146  AAACTCCAACACGATCCCGGGGCTCAAGTGGCTTAACAAGGAAAAGAAGATTTTTCAGATCCCCTGGATGCAT
     TTTGAGGTTGTGCTAGGGCCCCGAGTTCACCGAATTGTTCCTTTTCTTCTAAAAAGTCTAGGGGACCTACGTA

219  GCGGCTAGACATGGGTGGGATGTGGAAAAAGATGCACCACTCTTTAGAAACCGGGCAATCCATACAGGAA
     CGCCGATCTGTACCCACCCTACACCTTTTTCTACGTGGTGAGAAATCTTTGGCCCGTTAGGTATGTCCTT

289  AGCATCAACCAGGAGTAGATAAACCTGATCCCAAAACATGGAAGGCGAATTTCAGATGCGCCATGAATTCCTT
     TCGTAGTTGGTCCTCATCTATTTGGACTAGGGTTTTGTACCTTCCGCTTAAAGTCTACGCGGTACTTAAGGAA

362  GCCCTGATATTGAAGAAGTCAAGGATAAAAGCATAAAGAAAGGAAATAATGCCTTCAGGGTCTACCGAATGCTG
     CGGACTATAACTTCTTCAGTTCCTATTTTCGTATTTCTTTCCTTTATTACGGAAGTCCCAGATGGCTTACGAC
```

Fig. 6

IL10

```
1      ...CTT ...AGCTC...GTT...GTC...
       ...GAA ...GAG...CAA...CAG...
73     ...C GTC ...
       ...G CAG ...
146    ...
220    ...G GTC ...
       ...C CAG ...
```

COX2

```
1      ...CTCCTC...CTC TTC...CTC CACAGCCAGACGCCCTC AGACAGCAAAGC...ACCCCG
       ...GAGGAG...GAG AAG...GAG GTGTCGGTCTGCGGGAG TCTGTCGTTTC...GGGGGC
74     ...ATGCTC...CGCCCTGCTGCTGTGCC C GTC CTGCCGGCT...GCCATACA
       ...TACGAG...GCGGGCGCGGGACGACGACA GCCAG GACGGCGA...GGTATGT
149    ...GTT...GCTTTAGGA GACAA...
       ...CAA...
225    ATTGTACCCGACAG...
       TAACATGGGCCTCTC...
```

YY1

```
1      ...
78     ...CTC TCCCCCCGCCGCTC...CGCCTTCCTC CTC TG...
       ...GAGAGGGGCGGCGGGCGAGCGCCGGAACGAG GAG ACGGAA
153    ...CTCCTC...CGCCGCAGCCGAGGAGCCGAG...
       ...GAGGAG...GCGGCGTCGGCTCCTCGC...
228    ...CTCAG...CTC...CTC TACATGGCCACGGACGGCT...GAGATGCCCGC...GAGATCGTGG
       ...GAGT...GAG...GAG ATGTAGCGGTGCCTGCCGAGC...
305    ...
```

IRF2

```
1      AAGTGACGGGCTT...CTTATACCTTGGGGAATTGTA...GTAGC
       TTGACTGCCCGAA...GAATATGGAACGCCTTAACATA...CATCG
72     ...GTGGAAAGGATGCGCATGCGCCCGTGGCTGGA...CAGAT
       ...CACCTTTCCTACGCGTACGCGCG...ACCGACCTCC...GTCTA
146    ...CTTAACAAGGAAAGAAGATTTTTCAGATCCCCTG...TGCAT
       ...GAATTGTTCCTTTTCTTCTAAAAAGTCTAGGGGACC...GTA
219    ...GATGCACCACTCTTTAGAAACCGGGCAATCCATACAG...
       ...CTACGTGGTGAGAAATCTTTGGCCG...TAGGTATGT...
289    AGCATCAACCAGGAGTAGATAAACCTGATCCCAAAACATGGAAGGCGAATTTCAGATGCGCCATGA...TTCTT.
       TCGTAGTTGGTCCTCATCTATTTGACTAGGGTTTTGTACCTTCCGCTTAAAGTCTACGCGTAC...AGGAA
362    GCCTGATATTCGAAGAAGTCAAGGATAAAAGCATAAAGAAAGGAAATAATGCCTTCAGGGTC TACC...ATGCTG
       CGGACTATAACTTCTTCAG TTCCTATTTTGGTATTTCTTTCCTTTATTACGGAAGTCCCAG ATGG...TTACGAC
```

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Figure 6

</div>

LEGEND

▶ : starting methionine

◄——————▶ : complementary sequence for the hammerhead ribozyme

◄— — —▶ : complementary sequence for the hairpin ribozyme

Boxed sequences: target sequence for the chosen ribozyme

Bold characters: target sequences for hammerhead ribozymes

Bold and underlined characters: target sequences for both hammerhead and
hairpin ribozymes